

### Abstract

A method for operating an antenna assembly (100) produces a desired overall directional dependence. The antenna assembly (100) comprises at least one first partial antenna (R1) and a second partial antenna (R1+R2), which are disposed relative to each other in such a manner that the individual directional dependences of the partial antennas at least partially overlap. The first partial antenna (R1) is associated with a first antenna signal which represents a radio signal for receiving or transmitting via the first partial antenna (R1), and the second partial antenna (R1+R2) is associated with a second antenna signal which represents a radio signal for receiving or transmitting via the second partial antenna. Through cyclic, alternating operation of the first and second partial antennas, a third antenna signal can be generated which represents the radio signal for receiving or transmitting through the antenna assembly (100) and with the desired overall directional dependence via overlapping, individual directional dependences of the partial antennas (R1, R1+R2). The third antenna signal is generated through mathematical linking of the first and second antenna signals --.